ELG6-1380R523S02

ELG

AUTOMATION LIGHT GRIDS

SICK
Sensor Intelligence.

ELG6-1380R523S02 | ELG

AUTOMATION LIGHT GRIDS

Ordering information

Type	part no.
ELG6-1380R523S02	1026459

Other models and accessories ➜ www.sick.com/ELG

Illustration may differ

Detailed technical data

Features

Special feature	Special device
Sensor principle	Sender/receiver
Minimum detectable object (MDO)	35 mm [1]
Beam separation	60 mm
Number of beams	24
Detection height	1,380 mm
Evaluation beams	Cross beam
Included with delivery	MOUNTING KIT (2046551) BEF-2SMKEAKU4 (2019649) YF2A15-100VB5XLEAX (2096241) YF2A15-150VB5XLEAX (2096242)

[1] Cross beam.

Mechanics/electronics

Wave length	880 nm
Supply voltage V_s	DC 15 V ... 30 V [1]
Power consumption sender	< 100 mA [1]
Power consumption receiver	< 100 mA [1]
Ripple	< 5 V_{pp}
Output current $I_{max.}$	≤ 100 mA
Output load, capacitive	100 nF

[1] Typical value.
[2] DC 60 V, AC 25 V.
[3] NC = closed if at least one beam is interrupted, NO = closed if all of the beams are free.
[4] Operating in outdoor condition only with a external protection housing.

Output load, Inductive	1 H
Initialization time	1 s
Switching output	Relay [2]
Output mode	Light switching [3]
Dimensions (W x H x D)	34 mm x 1,456 mm x 29 mm
Connection type	Male connector M12, 5-pin
Housing material	Aluminum
Indication	LED
Synchronization	Optical
Enclosure rating	IP65 [4]
Circuit protection	U_V connections, reverse polarity protected Output Q short-circuit protected Interference pulse suppression
Protection class	III
Weight	3,700 g
Pulse frequency	250 kHz
Front screen	PMMA

[1] Typical value.

[2] DC 60 V, AC 25 V.

[3] NC = closed if at least one beam is interrupted, NO = closed if all of the beams are free.

[4] Operating in outdoor condition only with a external protection housing.

Performance

Maximum range	17 m
Minimum range	≥ 900 mm
Operating range	12 m
Response time	300 ms [1]

[1] With resistive load.

Ambient data

Shock resistance	10 g / DIN EN 60068-2-29 / 16 ms
Vibration resistance	5 g, 10 Hz ... 55 Hz (IEC 68-2-6)
EMC	EN 60947-5-2
Ambient light immunity	Indirect: ≤ 150,000 lx [1]
Ambient operating temperature	–25 °C ... +55 °C
Ambient temperature, storage	–40 °C ... +70 °C

[1] Sunlight.

Certificates

EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓

China RoHS	✓

Classifications

ECLASS 5.0	27270910
ECLASS 5.1.4	27270910
ECLASS 6.0	27270910
ECLASS 6.2	27270910
ECLASS 7.0	27270910
ECLASS 8.0	27270910
ECLASS 8.1	27270910
ECLASS 9.0	27270910
ECLASS 10.0	27270910
ECLASS 11.0	27270910
ECLASS 12.0	27270910
ETIM 5.0	EC002549
ETIM 6.0	EC002549
ETIM 7.0	EC002549
ETIM 8.0	EC002549
UNSPSC 16.0901	39121528

Dimensional drawing ELG3/ELG6
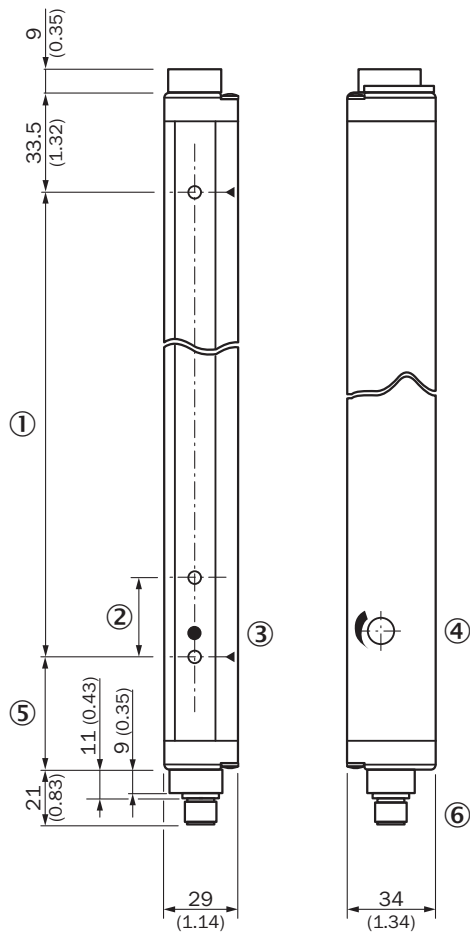
Dimensions in mm (inch)
① Detection height
② beam separation ELG3: 30 mm/ELG6: 60 mm
③ Status indicator (ELGE)/Power on (ELGS)
④ sensitivity control
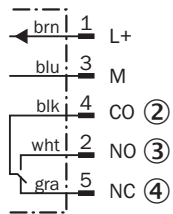⑤ Distance to first beam; ELG3: 42.5 mm/ELG6: 72.5 mm
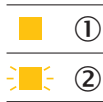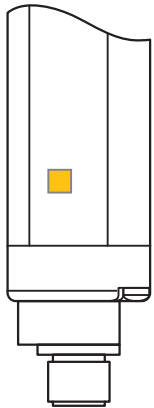⑥ Connection

Connection type and diagram

Sender

brn	1	L+
wht	2	nc ①
blu	3	M
blk	4	nc ①

Receiver

brn	1	L+
blu	3	M
blk	4	CO ②
wht	2	NO ③
gra	5	NC ④
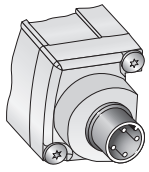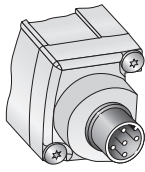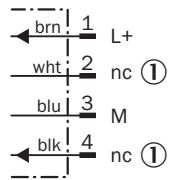
① Not assigned
② change over
③ normally open
④ Normally closed
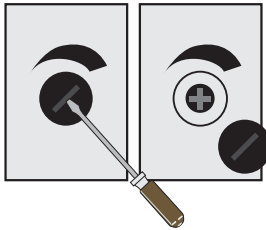
LED display receiver

| ▣ | ① |
| ▣ | ② |

① no object in the light path (alignment OK)
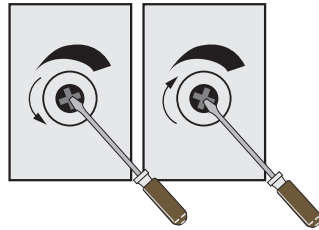② Contamination control

Specific features

Sensitivity adjustment
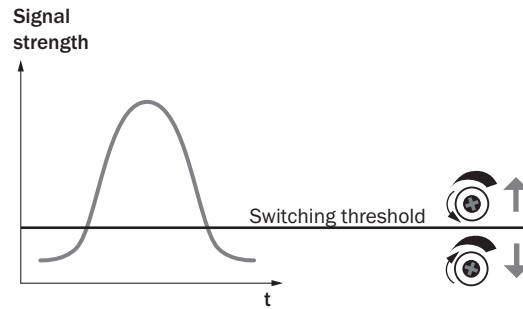
1. Remove cap

Remove cap with screw driver.

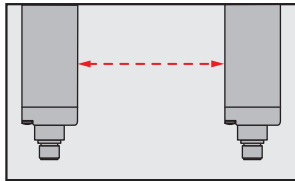**2. Potentiometer adjustment**

Turn left = for a lower range.
Turn right = for a higher range.

Sensitivity adjustment

Optical synchronisation

The light grid communicates via the light beams. A cable is not necessary for the optical synchronisation.

Recommended accessories

Other models and accessories → www.sick.com/ELG

Brief description		Type	part no.
Mounting systems			
	• **Description:** Mounting kit 1, rotatable, swivel mount • **Material:** Plastic • **Details:** Plastic • **Packing unit:** 4 pieces • **Suitable for:** All protective field heights in small housing	BEF-2SMKEAKU4	2019649

	Brief description	Type	part no.
connectors and cables			
	• **Connection type head A:** Female connector, M12, 4-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 5 m, 4-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Zones with chemicals, Uncontaminated zones	YF2A14-050VB3XLEAX	2096235
	• **Connection type head A:** Female connector, M12, 5-pin, straight, A-coded • **Connection type head B:** Flying leads • **Signal type:** Sensor/actuator cable • **Cable:** 5 m, 5-wire, PVC • **Description:** Sensor/actuator cable, unshielded • **Application:** Zones with chemicals, Uncontaminated zones	YF2A15-050VB5XLEAX	2096240

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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